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PCT/KR2003/002215

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REC'D 29 MAR 2005

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P03E1002/PCT	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/KR2003/002215	International filing date (day/month/year) 21 OCTOBER 2003 (21.10.2003)	Priority date (day/month/year) 26 DECEMBER 2002 (26.12.2002)
International Patent Classification (IPC) or national classification and IPC IPC7 H04N 7/06		
Applicant Electronics and Telecommunications Research Institute et al		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of _____ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand

31 MARCH 2004 (31.03.2004)

Date of completion of this report

09 MARCH 2005 (09.03.2005)

Name and mailing address of the IPEA/KR



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/KR2003/002215

I. Basis of the report

1. With regard to the elements of the international application:*

- ☒ the international application as originally filed
- ☐ the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the claims:
 pages _____, as originally filed
 pages _____, as amended (together with any statement) under Article 19
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the drawings:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language _____ which is

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION

International application No.

PCT/KR2003/002215

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1 - 8	YES
	Claims		NO
Inventive step (IS)	Claims	1 - 8	YES
	Claims		NO
Industrial applicability (IA)	Claims	1 - 8	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Reference is made following documents :

D EP 051699 A

Here are the explanations of the comparison result of the present invention with the prior art D.

The present invention relates to a method and an apparatus for the digital broadcast transmission/receiving using a multi-frequency band. Especially, the device is characterized by the following technical features: dividing a digital broadcast service so as to send it through the plural frequency band passes among the allowed frequency bands; a receiver records header information so as to be combined with the original data.

In addition, the technical features comprise the following things: a source encoding means for data to be transmitted and to generate source-coded data; a capacity managing means for dividing the encoded data by the above data encoding means into a plurality of channels according to the channel capacity and for recording the header information so that the said divided data can decode to the original data in the receiving device ; a channel encoding means for encoding the divided data according to the channel environment and generating channel-coded data; a transmitting means for multiplying, converting and transmitting the channel encoded data through the above channel encoding means.

As mentioned above, the present invention can provide an efficient digital broadcasting service by transmitting data through a plurality of frequency bands while the maximum data transfer rate is limited in the conventional digital broadcasting system because a broadcasting station has a certain frequency band to transmit different services.

On the other hand, the apparatus for segmenting the encoded video signal of the cited prior art relates to a circuit forming video data transmission blocks in video encoder and to a circuit depacketizing the transmission blocks in the video signal receiver. Especially, it is characterized by arranging the coded data in the transmission blocks for header information not to lose or corrupt during the transmission.

While the present invention is similar to the prior one in that both inventions divide the encoded video data into blocks for decoding by using header information in a receiver without a loss or corruption they are different from each other in that the technology in the present invention can divide the data into blocks through the plural frequency bands among the allowed frequencies in a digital broadcasting service